

California Energy Commission Spring 2006 Price Spike Report

Media Briefing

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California Energy Commission Report Results

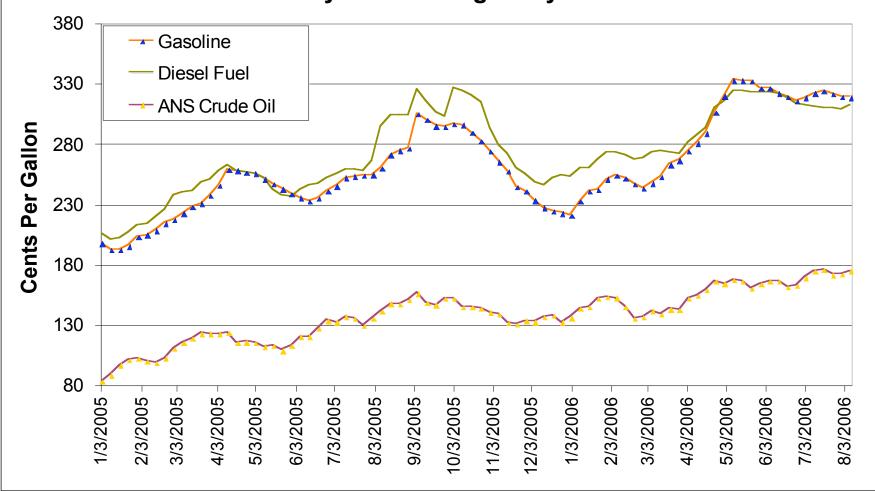
- Factors identified that contributed to price spike
- Economic impact quantified for California consumers and businesses
- Regional extent of price spike analyzed in detail
- Statewide variability of gasoline retail prices was characterized
- Financial information assessed to identify levels of profitability for petroleum companies operating in California
- Recommendations developed to enable more thorough monitoring and analysis of California's petroleum market



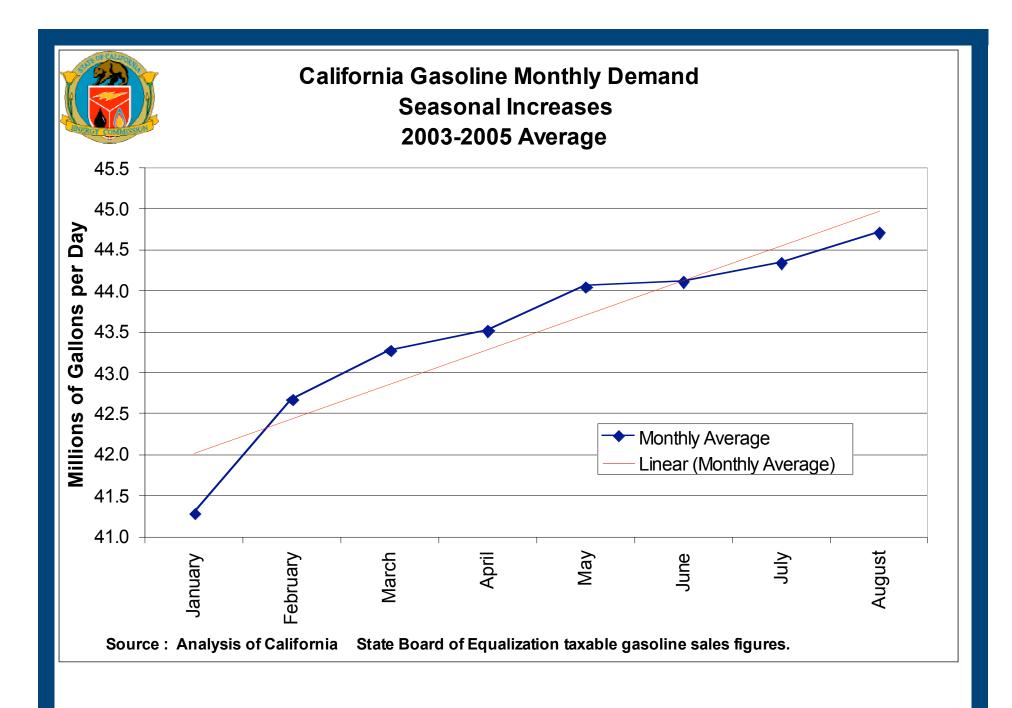
Price Spikes and the Petroleum Market



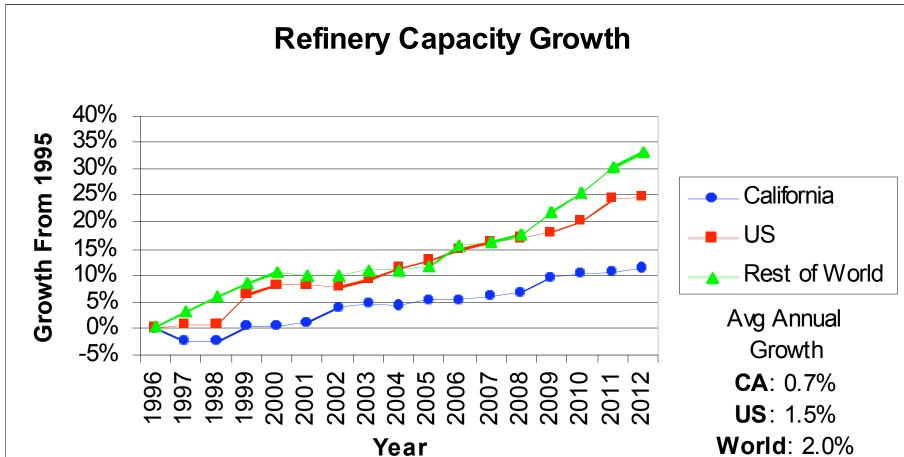
California Retail Fuel Prices Gasoline and Diesel Fuel versus Alaska North Slope (ANS) Crude Oil January 2005 through July 2006



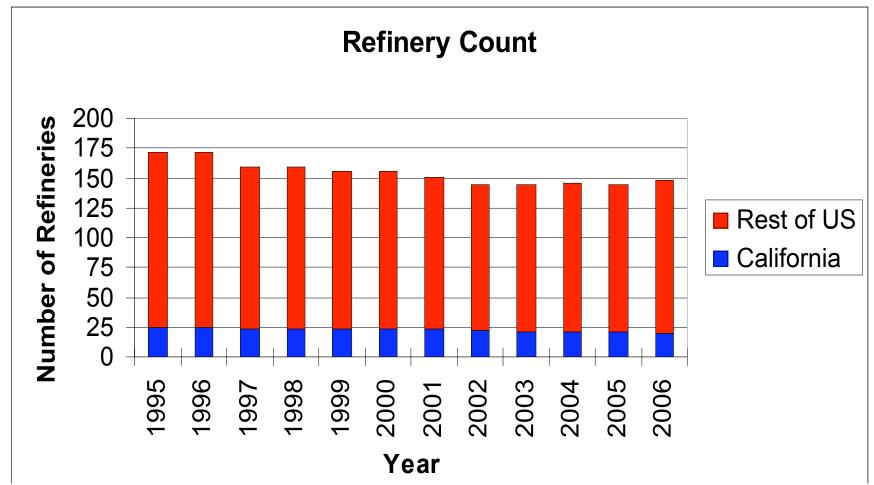
Sources: Energy Information Administration (EIA) – California retail prices. Alaska crude oil prices – Wall Street Journal.









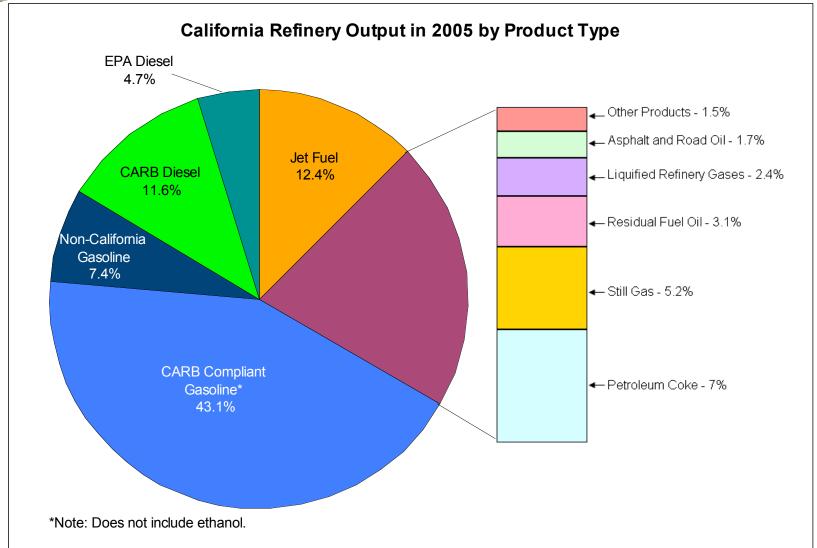




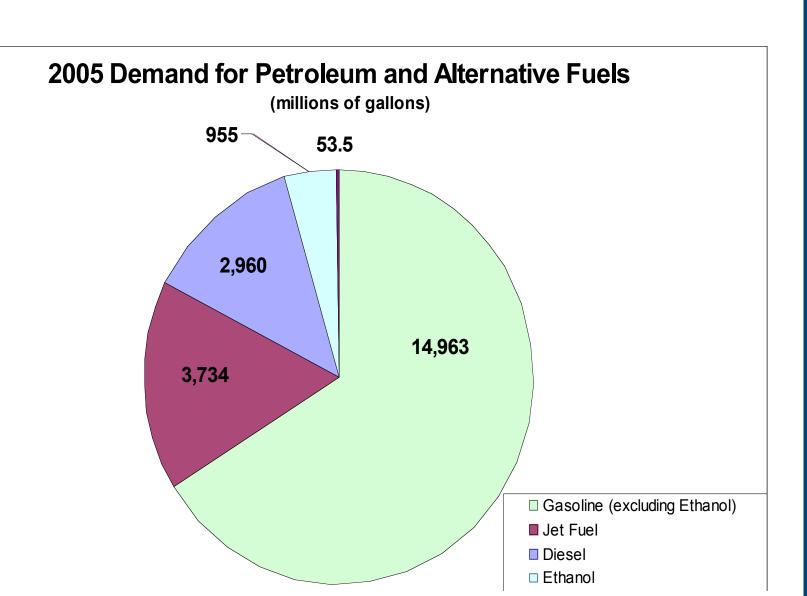
Types of petroleum products that are produced by refineries are influenced by:

- fuel specifications
- quality of the crude oil processed
- complexity of the refinery
- supply/demand balance of the local petroleum markets



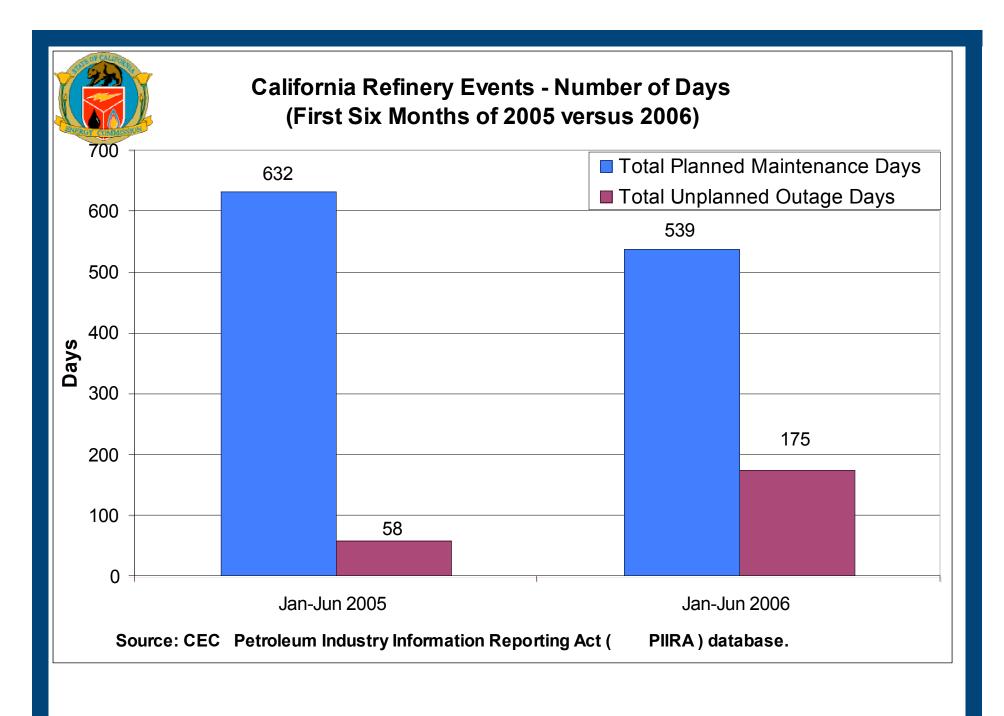


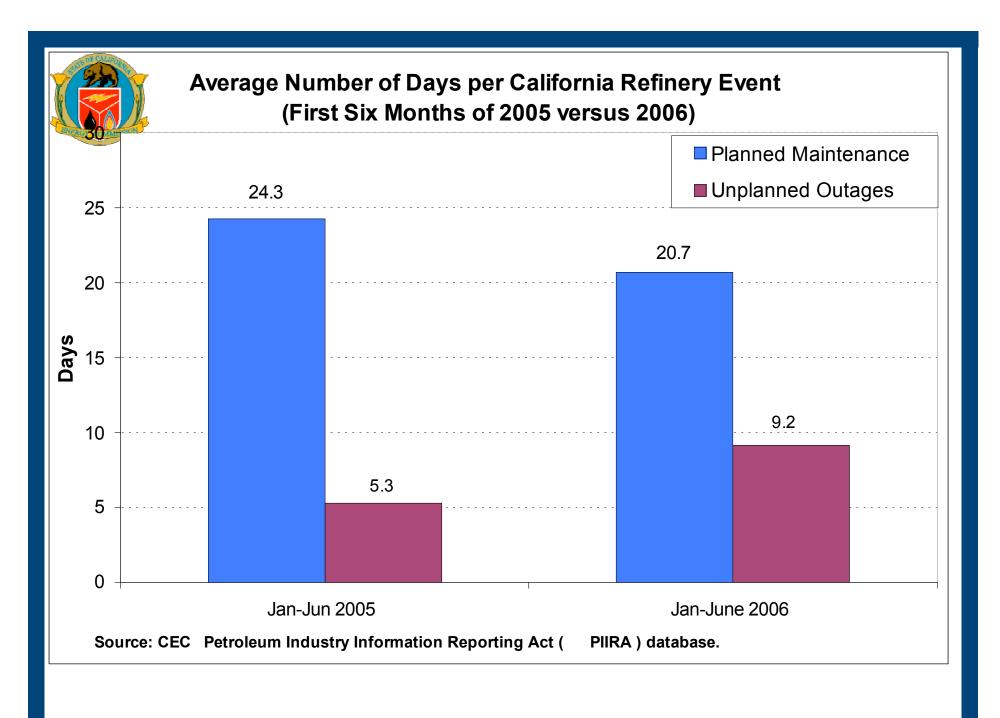


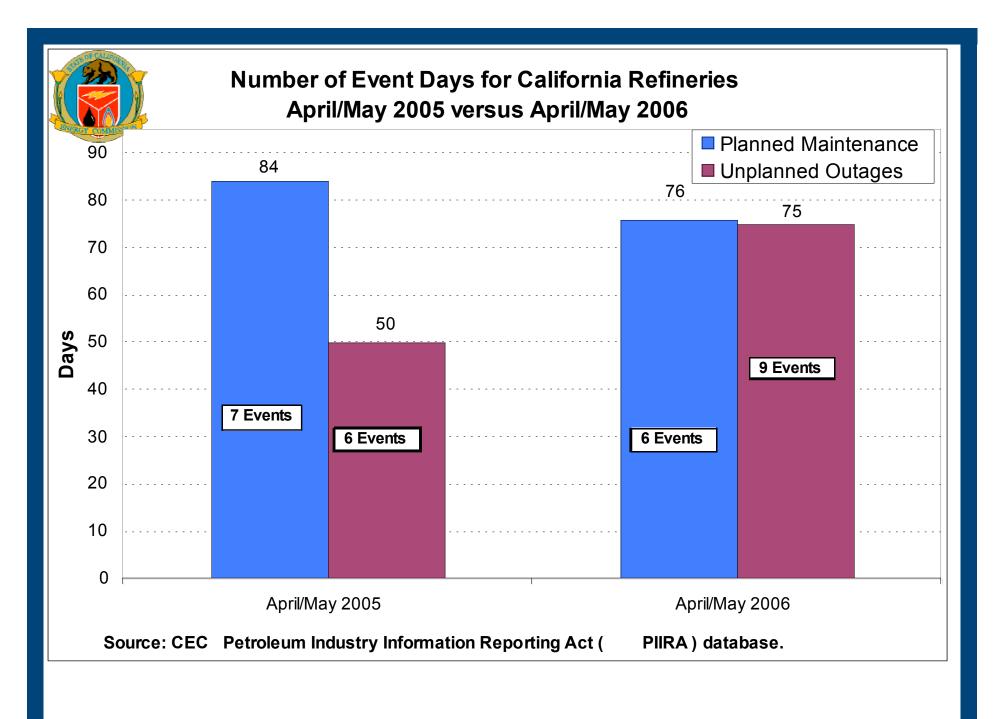


Market Operational Factors that Contributed to the Spring 2006 Price Spike

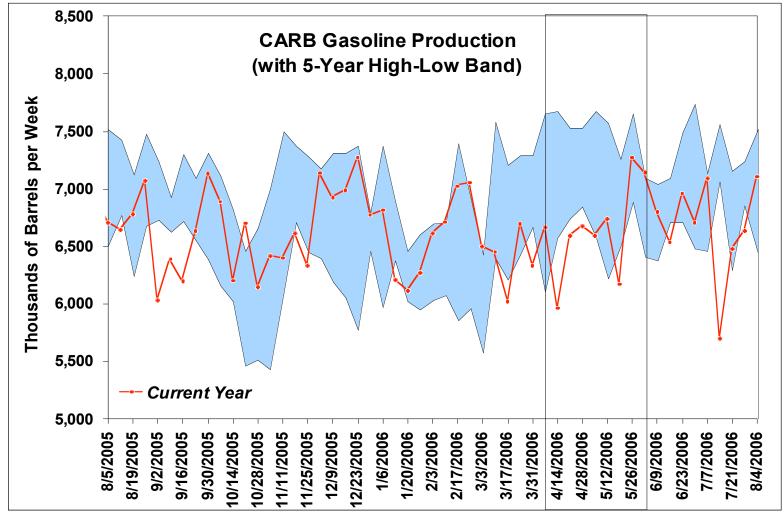
- Refinery unplanned outages and planned maintenance
- Refinery production of gasoline and diesel fuel
- Inventory levels for petroleum products
- Pipeline exports to Nevada and Arizona
- Congestion of marine infrastructure operations in Southern California
- March 2006 Alaska North Slope crude oil distribution system leak
- Transition to new fuel specifications





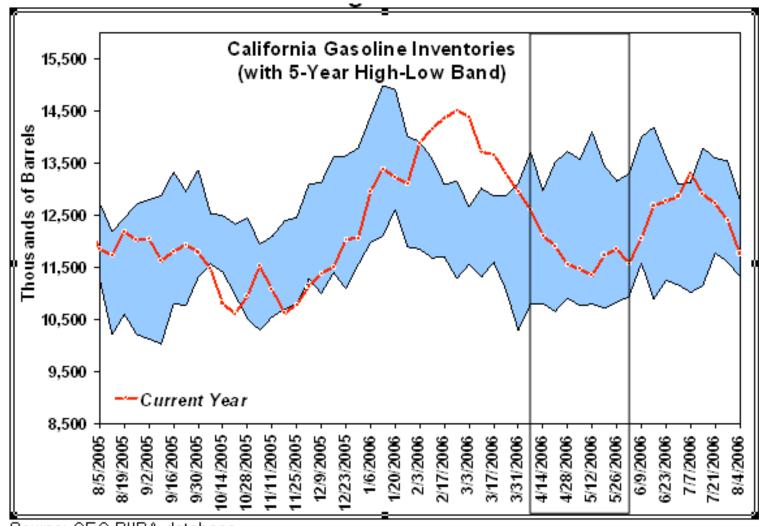






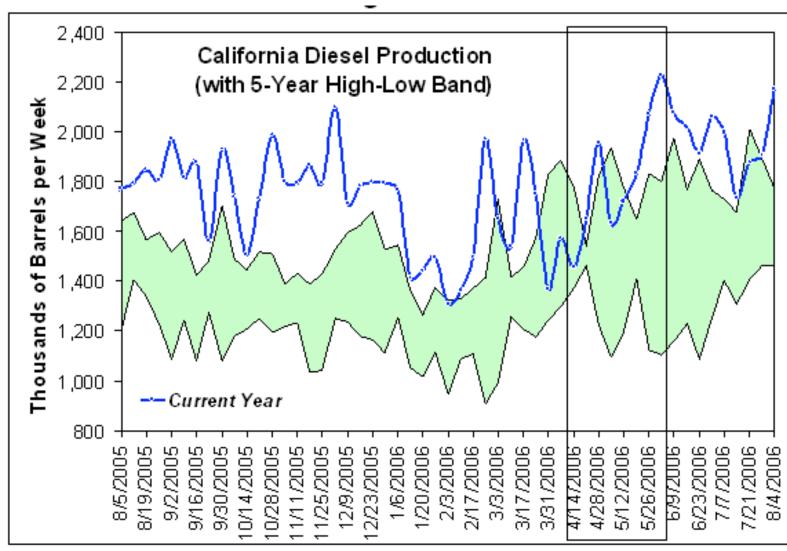
Source: CEC Petroleum Industry Information Reporting Act (PIIRA) database.





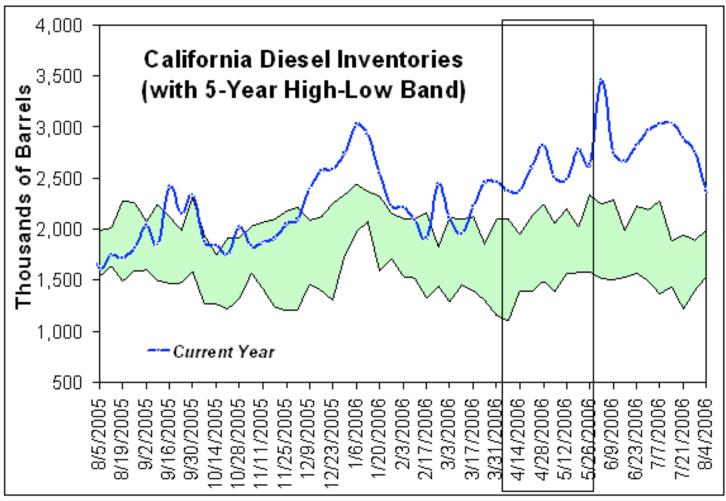
Source: CEC PIIRA database.



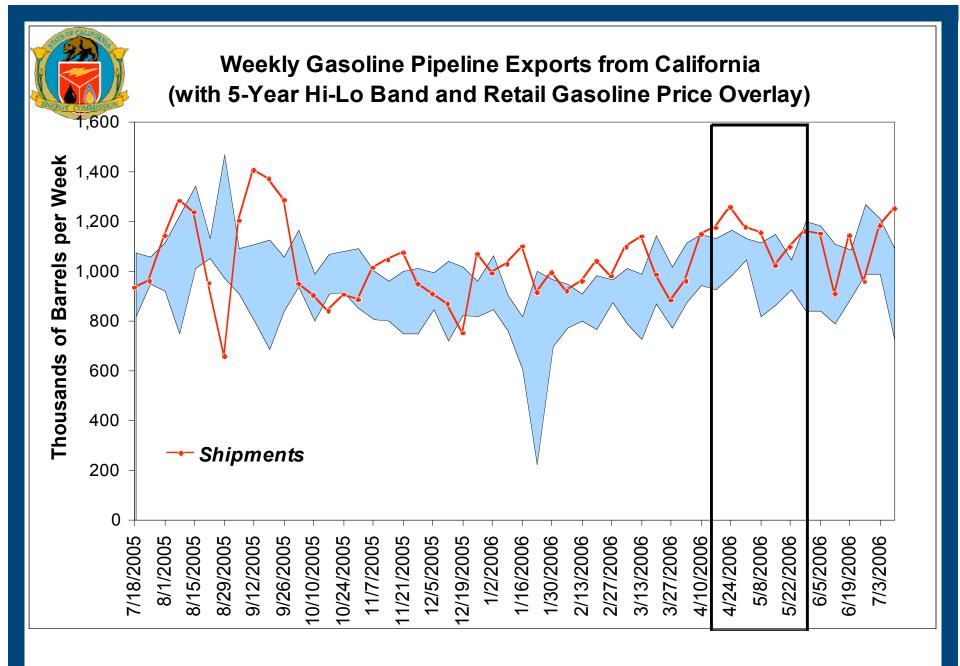


Source: CEC PIIRA database.





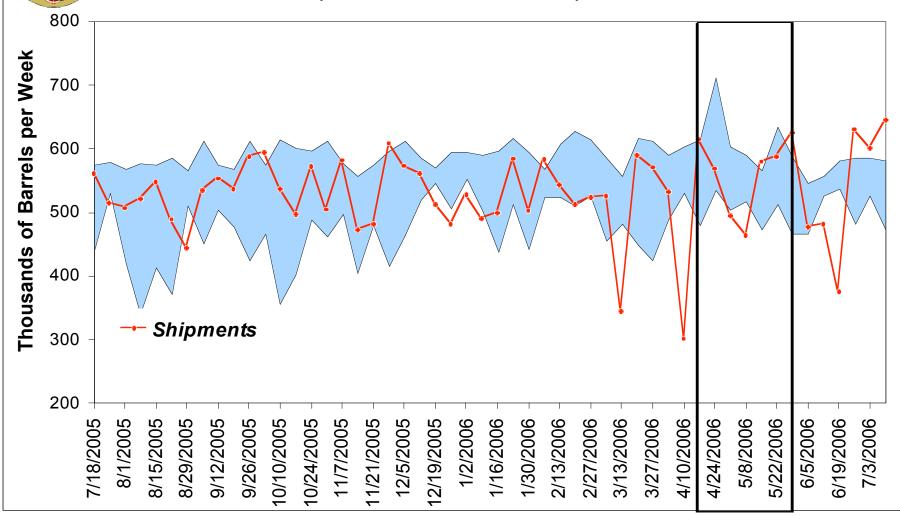
Source: CEC PIIRA database.



Source: CEC Petroleum Industry Information Reporting Act (PIIRA) database.



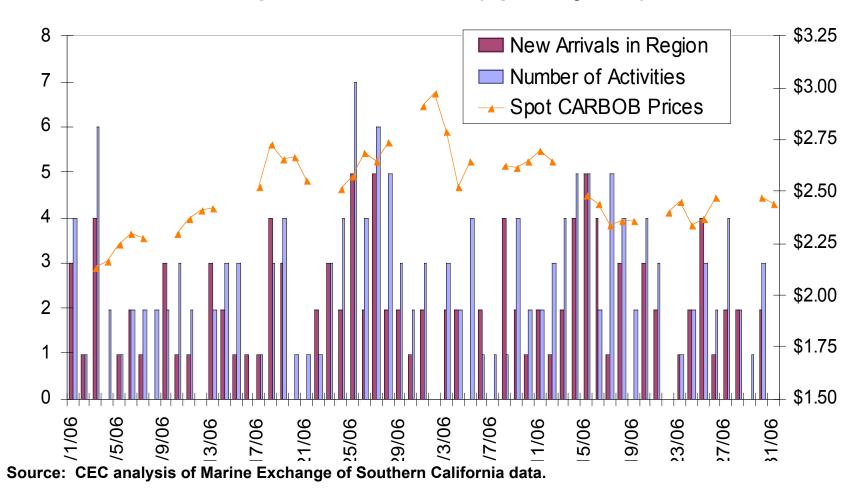
Weekly Gasoline Pipeline Shipments to Arizona from Texas (with 5-Year Hi-Lo Band)



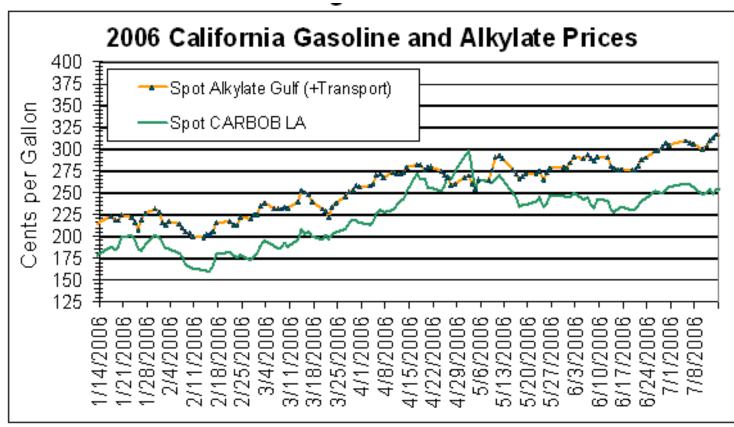
Source: CEC Petroleum Industry Information Reporting Act (PIIRA) database.



Petroleum Product Tanker Arrivals/Activities in Southern California versus LA Spot CARBOB Prices (April-May 2006)





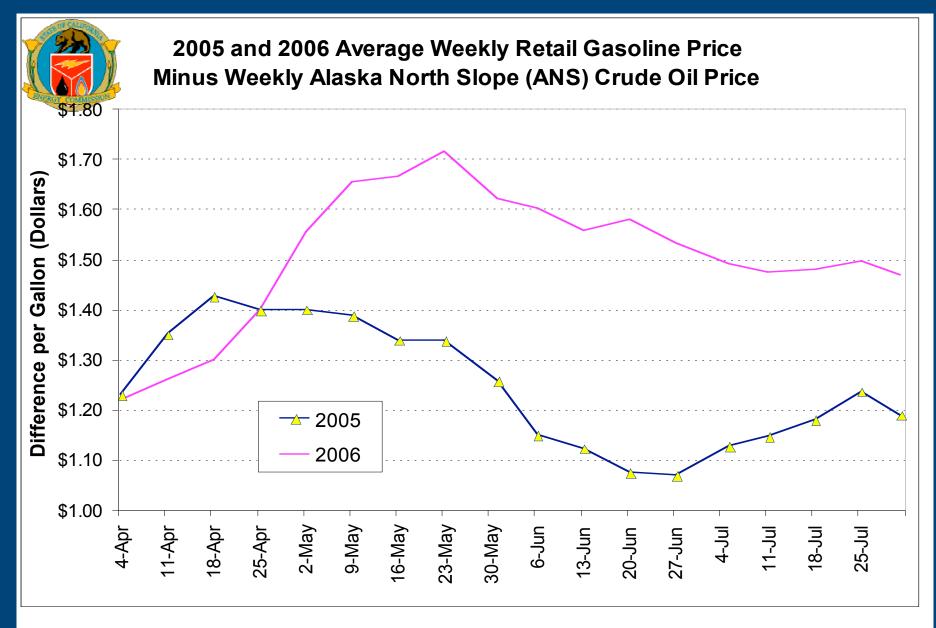


Sources: OPIS for spot CARBOB prices in Los Angeles and Platt's for Gulf Coast alkylate values.

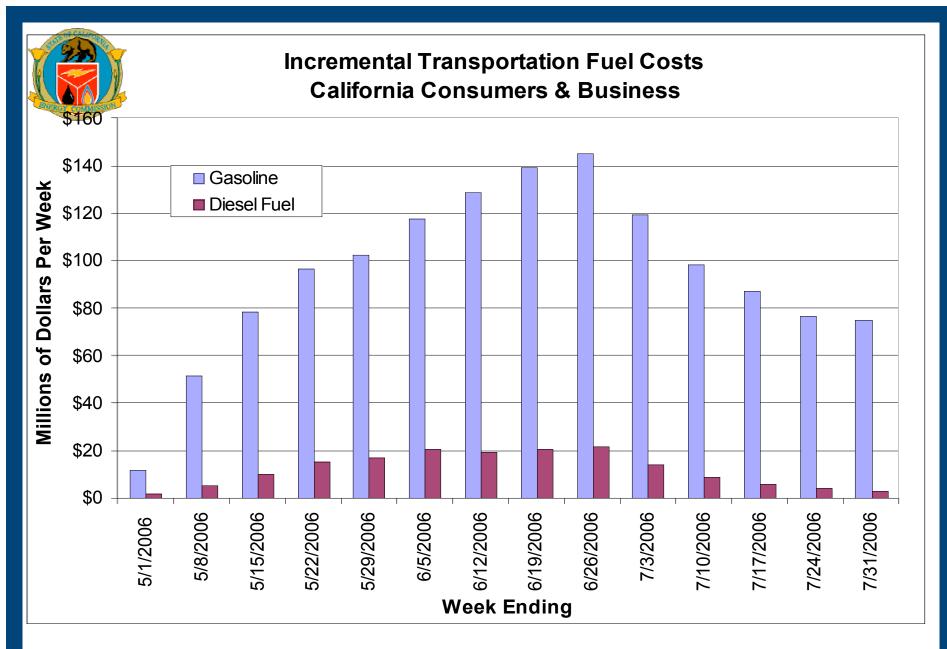


Economic Impact on California Consumers and Business

- Price spike increased gasoline costs to California consumers by \$1.3 billion from April 25 through July 31, 2006
- The impact on businesses due to higher diesel fuel prices over the same period of time was approximately \$170 million
- No attempt was made to quantify secondary costs for the California economy as a whole that occur when increased transportation costs are passed to consumers in the form of higher priced goods and services.

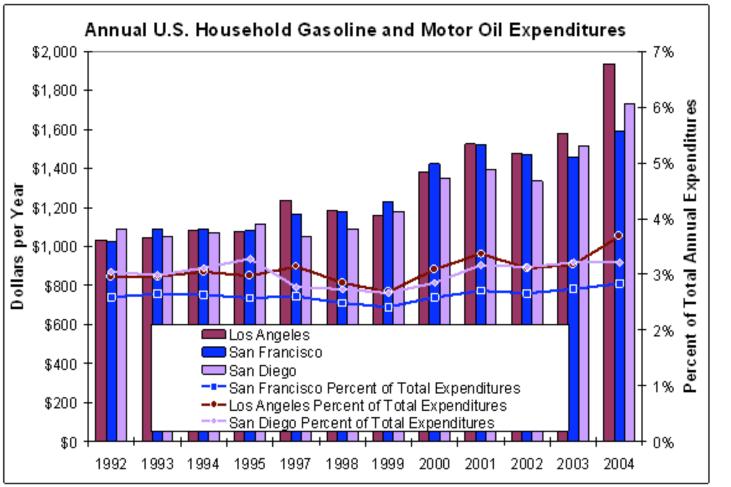


Sources: Energy Information Administration (EIA) – California retail prices. CA BOE – taxable gasoline fuel sales. Alaska crude oil prices – Wall Street Journal.

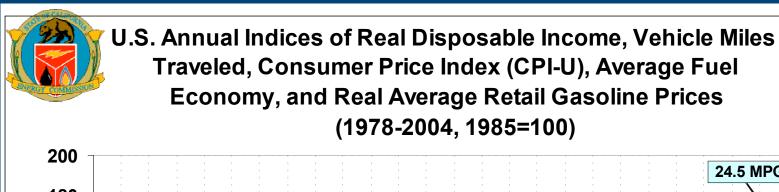


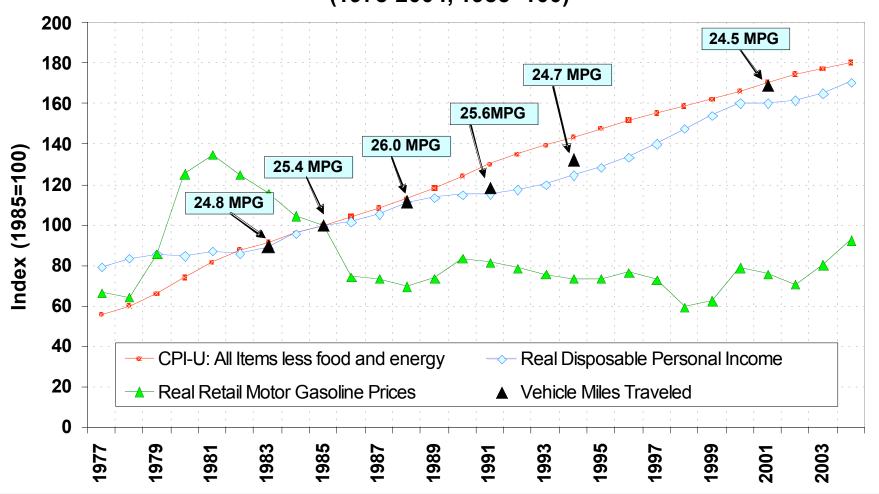
Sources: Energy Information Administration (EIA) – California retail prices. CA BOE – taxable gasoline fuel sales. Alaska crude oil prices – Wall Street Journal.





Sources: Energy Information Administration, National Household Transportation Survey, BLS, U.S. Census, California Board of Equalization, Motor Gasoline Taxable Sales Volumes.



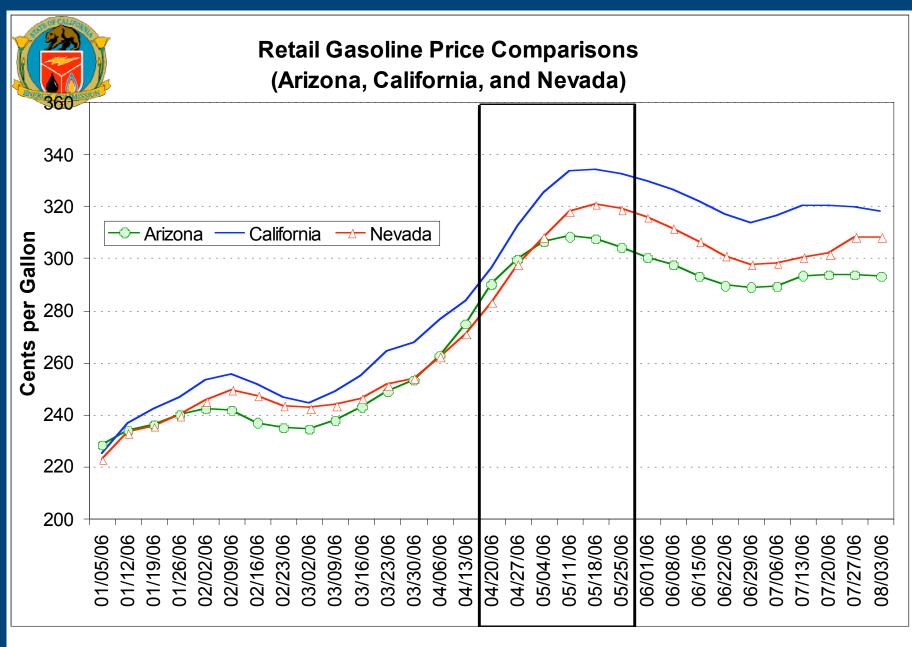


Sources: Energy Information Administration (EIA), National Household Transportation Survey (NHTS), and Bureau of Labor Statistics (BLS).

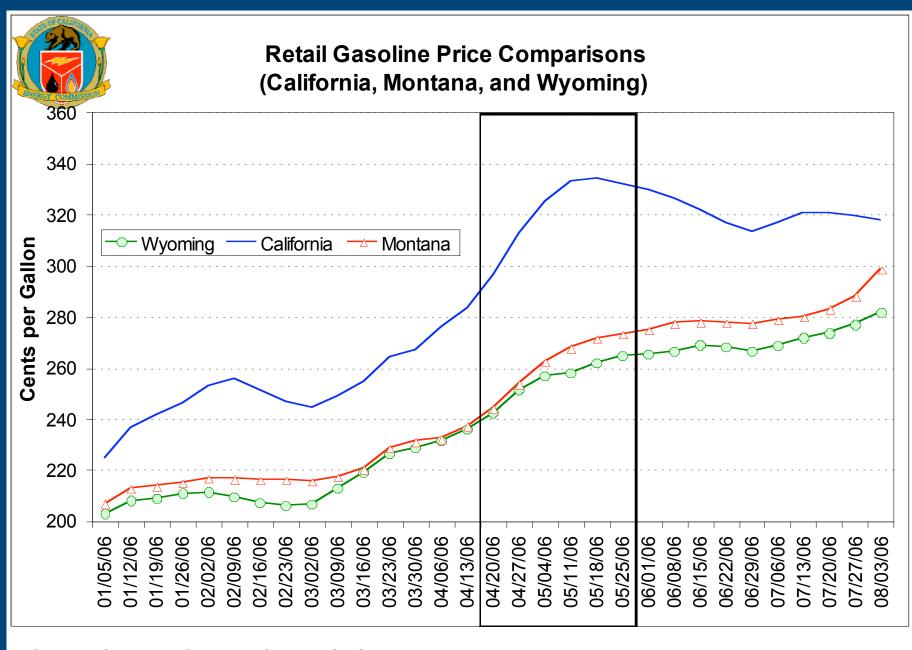


Regional and Statewide Retail Gasoline Price Variations

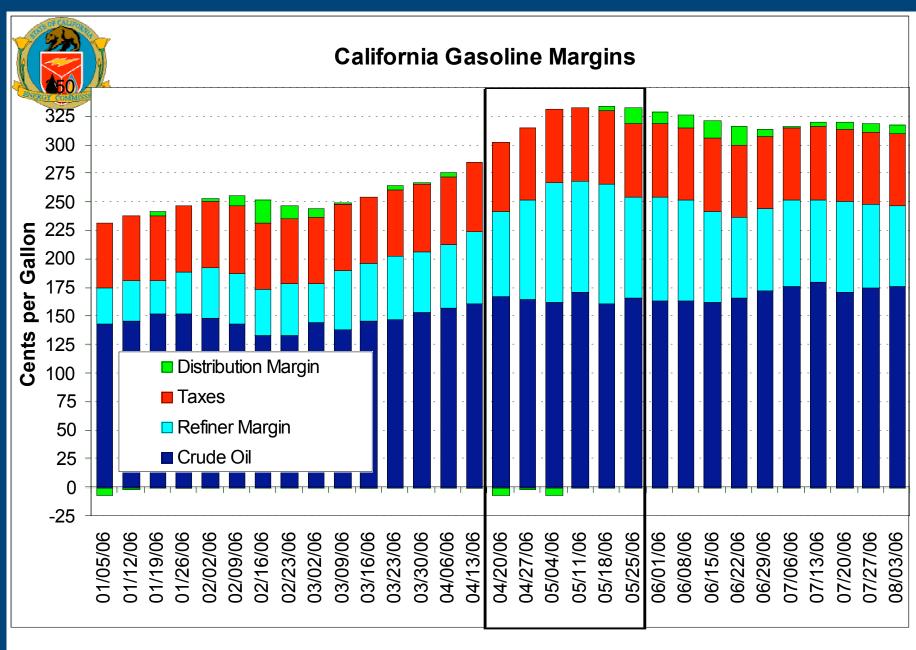
- Price spike was not isolated to California's market
- Retail prices in neighboring states that are supplied by California refineries demonstrated the closest correlation
- States more distant from California did not demonstrate a similar relationship
- California retail distribution margins declined and were temporarily negative during the spike in wholesale gasoline prices



Source: Oil Price Information Service (OPIS).

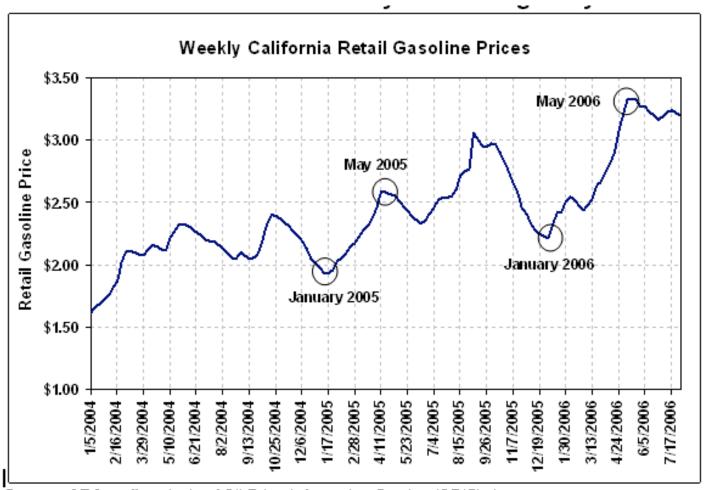


Source: Oil Price Information Service (OPIS).



Source: CEC staff analysis Oil Price Information Service (OPIS) data.

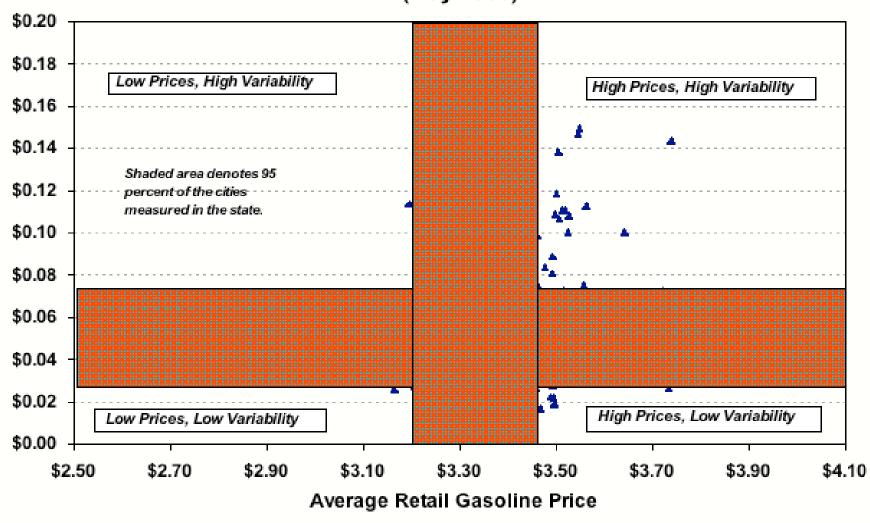




Source: CEC staff analysis of Oil Price Information Service (OPIS) data.



California City Analysis of Gasoline Prices (May 2006)



Low Prices, High Variability

Cities include Buttonwillow,
Concord, Dixon, Marysville,
Novato, Suisun City and
Woodland. These cities tend to be
near major roadways, and the
stations can be characterized as
having increased sales v olumes
and possibly increased
competition.

Low Prices, Low Variability

Very few areas of the state fall into the low -price, low -variability category. Cities such as Antelope, Hilmar, Frazier Park, Foresthill, and Shingle Springs fall into this category. These places ma y be categorized as being close to major roadways, but not directly accessible.

High Prices, High Variability

Cities such as Beverly Hills, Mill Valley, San Francisco, and South Lake Tahoe fall into this category. These cities can be characterized as having above average land values that may affect the retail price.

High Prices, Low Variability

Cities in more remote regions of the state tend to have above - average prices combined with lower variability. These cities are characterized by ha ving fewer retail outlets, lower volume sales, and higher fuel delivery costs. In some cases, these cities may have only one retail outlet. This high -price, low variability category includes such cities as Baker, Big Bear City, Mount Shasta, and Soledad.

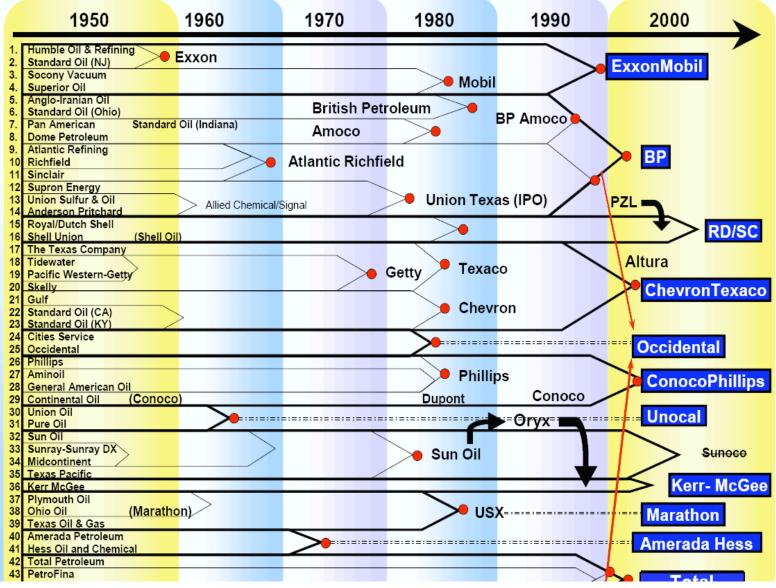
Increasing Retail Price



Financial Data of Petroleum Companies

- Petroleum industry has consolidated over the last 50 years
- Several measures of profitability were used to compare major oil companies with other integrated oil companies on an international level.
- The companies in the petroleum industry were grouped into the following categories: exploration & production (E&P), integrated, and refining & marketing (R&M).

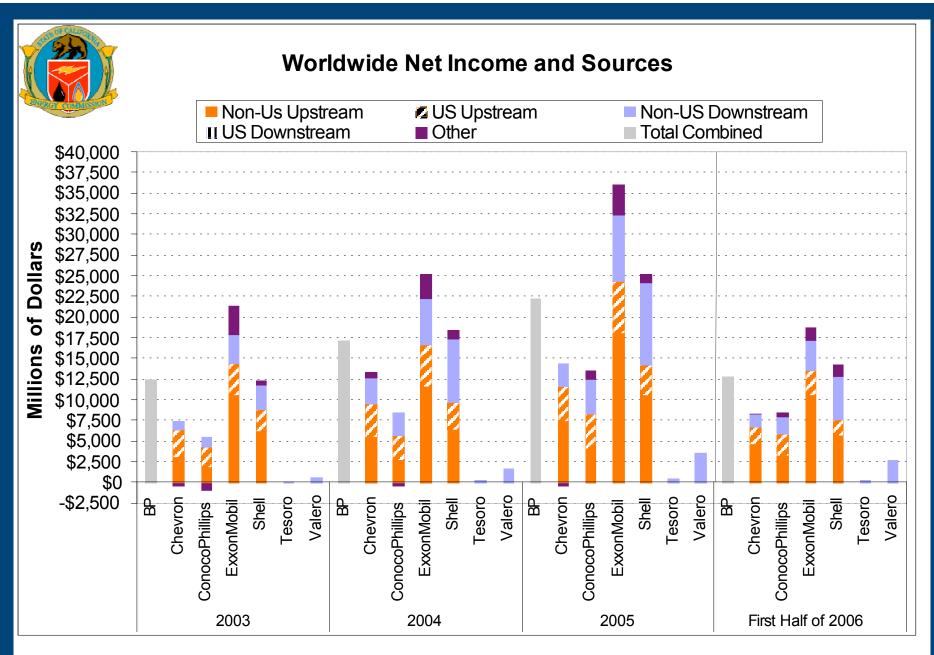




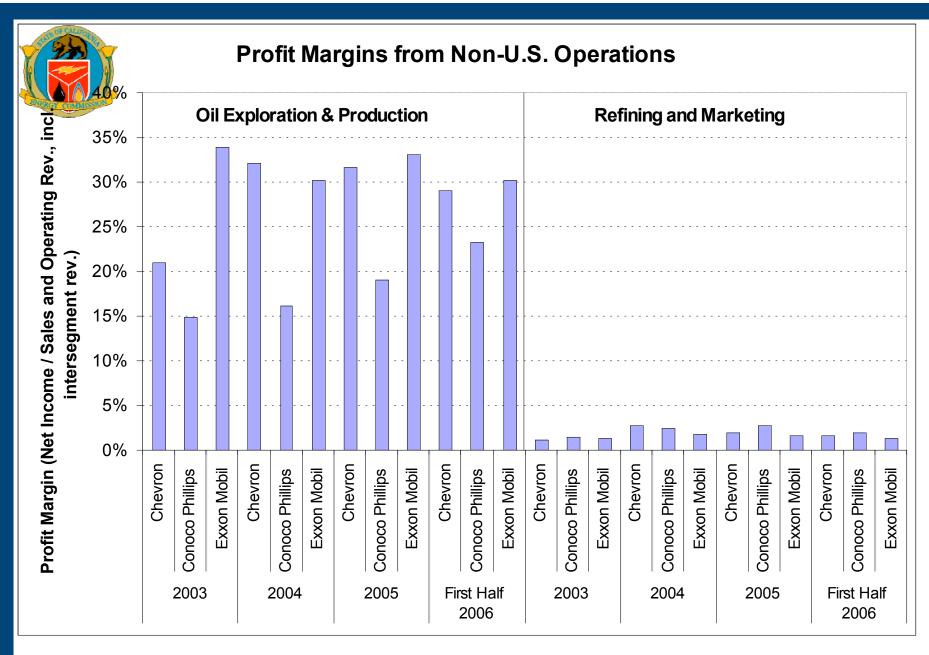
Source: Used with the written permission of John S. Herold, Inc.



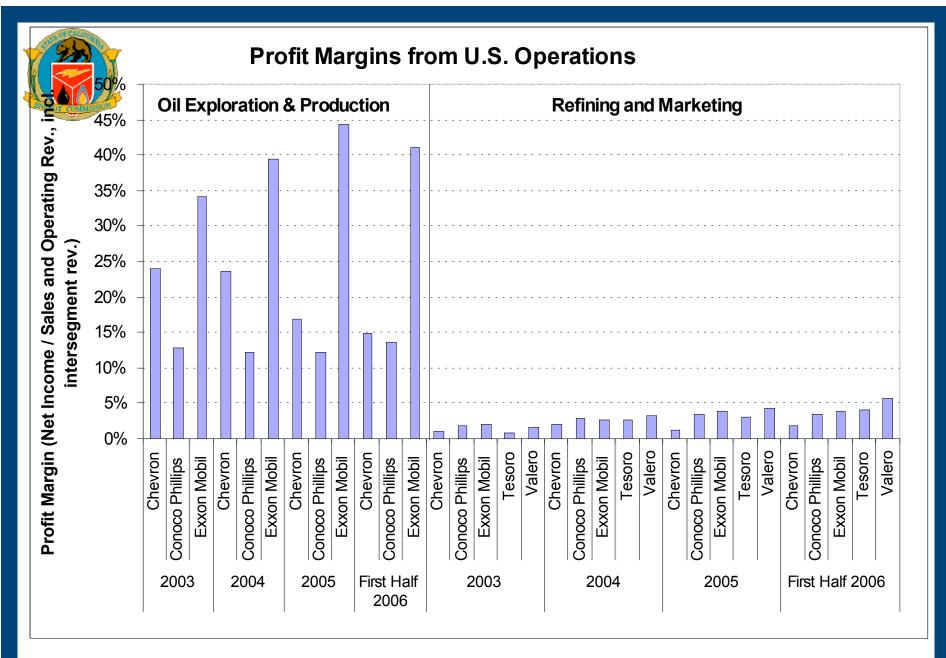
Company	Type	Number of Calif. Refineries	U.S. Based Company	Foreign Based Company
BP	Integrated	1		X
Chevron	Integrated	2	X	
ConocoPhillips	Integrated	2	\forall	
ExxonMobil	Integrated	1	\forall	
Royal Dutch Shell	Integrated	2		Y
Tesoro	R&M	1	X	
Valero	R&M	2	R	



Source: CEC analysis of company management reports, SEC 10-K, 10-Q, 20-F, and 6-K filings.



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Summary



Factors that Contributed to Price Spike

- Refinery Operations & Impact on Production
 - Gasoline production was lower due to unplanned refinery outages
- Inventory Levels
 - Gasoline levels were declining, but that is normal for the spring
- Pipeline Exports to Neighboring States,
 - Higher than 5 year average for gasoline
 - Higher than 5 year average for diesel fuel
- Congestion at Marine Terminals for Petroleum Imports
 - Increased at time of wholesale gasoline price spike
- March 2006 Alaska North Slope crude oil distribution system leak
 - Crude oil production declined by 100,000 barrels per day for 5 weeks
- Transition to New Fuel Specification
 - National transition away from MTBE (methyl tertiary butyl ether) to ethanol increased price for important gasoline blendstock - alkylate
 - Switch to Ultra Low Sulfur Diesel (ULSD) on June 1, 2006 created a buildup of inventories that were held in reserve as a precaution against startup problems for the new refinery equipment